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APPLICATION NO. FIRST NAMED INVENTOR **FILING DATE** ATTORNEY DOCKET NO. 102001-200 02/17/00 09/505,501 O MEARA **EXAMINER** PM82/0116 Todd E Garabedian Ph D PAPER NUMBER Wiggin & Dana One Century Tower New Haven CT 06508-1832 3641

01/16/01

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trad marks

Office Action Summary Art Unit 3641 3641 3641 3641 3641 3641 Art Unit 3641 Art Unit 3641 Art Unit 3640 AS HORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE Of THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1-136 (a). In no event, however, may a reply be timely filled distance of time may be available under the provisions of 37 CFR 1-136 (a). In no event, however, may a reply be timely filled distance of time may be available under the provisions of 37 CFR 1-136 (a). In no event, however, may a reply be timely filled distance of time may be available under the provisions of 37 CFR 1-136 (a). In no event, however, may a reply be timely filled distance of timely timel	·			
Office Action Summary Examiner	Office Action Summary	Application No.	Applicant(s)	
Claim(s)				
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A SHORTENEO STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Edensions of time may be available under the provisions of 37 CR 1.136 (a). In no event, however, may a reply be timely filed after 50 (c) MONTHS from the mailing date of this communication. If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. The period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. This period for reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Status 1) Responsive to communication. 1) Responsive to communication of allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-18 is/are pending in the application. 4a) Of the above claim(s) 8-18 is/are withdrawn from consideration. 5) Claim(s) 1-18 is/are allowed. 6) Claim(s) 1-18 is/are objected to. 8) Claim(s) 1-18 is/are objected to. 8) Claim(s) 1-18 is/are as subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are objected to by the Examiner. 11) The proposed drawing correction filed on is: a) approved b) disapproved. 12) The oath or declaration is objected to by the Examiner. Priority under 35 U.S.C. § 119 13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d). a) All by Some * c) None of the CERTIFIED copies of the priority documents have been: 1 received in Application No. (Series Code / Serial Number) 3 received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). *Se				
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U.S. Patent and Trademark Office PTO-326 (Rev. 3-98)

Art Unit: 3641

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DETAILED ACTION

Election/Restrictions

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - Claims 1-7, drawn to a propellant composition, classified in class 149, subclass
 96+.
 - II. Claims 8-16, drawn to a method of manufacturing, classified in class 264, subclass 3.3.
 - III. Claims 17 and 18, drawn to a propellant grain, classified in class 102, subclass 281+.

The inventions are distinct, each from the other because of the following reasons:

2. Inventions II and I are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make other and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case the propellant as claimed can be made by another and materially different process such as pouring the lacquer inside a mold, letting the solvent to evaporate.

3.

4. Inventions I -II and III are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the different inventions are not related since claims 17 and 18 never claimed a propellant composition.

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9.

5. Because these inventions are distinct for the reasons given above and have acquired a

separate status in the art as shown by their different classification, restriction for examination

purposes as indicated is proper.

6. During a telephone conversation with Todd E. Garabedian on December 11, 2000 a

provisional election was made with traverse to prosecute the invention of I, claims 1-7.

Affirmation of this election must be made by applicant in replying to this Office action. Claims

8-18 are withdrawn from further consideration by the examiner, 37 CFR 1.142(b), as being

drawn to a non-elected invention.

7. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the

inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the

currently named inventors is no longer an inventor of at least one claim remaining in the

application. Any amendment of inventorship must be accompanied by a petition under 37

CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Claim Rejections - 35 USC § 112

8. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-7 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for

failing to particularly point out and distinctly claim the subject matter which applicant regards as

the invention. Is not clear if applicants are claiming a propellant composition or a lacquer. A

lacquer composition is not a propellant composition, but a lacquer plus additional ingredients can

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lead to the propellant composition. Claim 2 does not limit the propellant, since not in final propellant.

Claim Rejections - 35 USC § 102

10. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 11. Claims 1-7 are rejected under 35 U.S.C. 102(b) as being anticipated by Silk '567. Silk teaches a nitrocellulose lacquer comprising a potassium salt, ethyl acetate, diphenylamine and nitroglycerine (col. 5, lines 55-70).

Claim Rejections - 35 USC § 103

- 12. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 13. Claims 1-7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Armantrout 442.

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Armantrout '442 disclose the prior art preparation of a double base propellant binder comprising nitrocellulose dissolved in acetone and a plasticizer. Armantrout in his invention eliminate the use of a solvent by using liquid binder and add the use of a stabilizer.

It would have been obvious to one having an ordinary skill in the art at the time the invention was made to add the use of a stabilizer and a solvent when using a solid binder in order to prepare the lacquer prior the preparation of the propellant. Since it has been held that where the general conditions of a claim are disclosed in the prior art, discovering the optimum or workable ranges involves only routine skill in the art. *In re Aller* 105 USPQ 233.

Conclusion

14. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Wells '719, Araki et al. '534, Camp et al. '350, Chi '297, Davis '261, Comfort '402, Lagreze et al. '228, Boileau et al. '658, Melvin '868, Canterberry '342, Cartwright '684, Schumacher '166, Godsey et al. '311 and Willer et al. '794 teach compositions of nitrocellulose with a stabilizer and at some point the use of a solvent.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Glenda L. Sánchez whose telephone number is (703) 306-4164. The examiner can normally be reached on Monday through Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mike Carone can be reached on (703) 306-4198. The fax phone number for the organization where this application or proceeding is assigned is (703) 305-7687.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-1113.

GLS January 10, 2001

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